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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/780,375	02/12/2001	Christoph Hauger	00014	7035
759	0 11/08/2002			
Walter Ottesen			EXAM	INER
Patent Attorney P.O. Box 4026	20885-4026		FINEMA	N, LEE A
Gaithersburg, M			ART UNIT	PAPER NUMBER
			2872	
			DATE MAILED: 11/08/2002	!

Please find below and/or attached an Office communication concerning this application or proceeding.

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				ation No.	Applicant(s)	.,
Offic Action Su		Action Summary	09/780		HAUGER ET AL.	
		y construction of the cons	Exami		Art Unit	
	The MAII	ING DATE of this communic	Lee Fi	neman	2872	
Period fe	or Reply	LING DATE OF UNS COMMUNIC	auon appears on	the cover sheet w	ith the correspondenc addr	ess
- Exte after - If the - If NO - Failu - Any	insions of time in SIX (6) MONTH period for reply period for reply ire to reply within reply received by	O STATUTORY PERIOD FO DATE OF THIS COMMUNIC may be available under the provisions of HS from the mailing date of this community by specified above is less than thirty (30) by is specified above, the maximum status in the set or extended period for reply well that the set or extended period for reply well that the set of extended period for reply well that the set of the s	(A LION. 137 CFR 1.136(a). In no nication. days, a reply within the syltony period will apply and it by statute cause the	event, however, may a statutory minimum of this will expire SIX (6) MOI	reply be timely filed ty (30) days will be considered timely. THS from the mailing date of this comm	nunication.
1)🖂	Responsi	ive to communication(s) file	d on <i>11/1/02</i>			
2a)□			b) This action	is non final		
3)						
-,-	closed in on of Clair	accordance with the practic	e under <i>Ex parte</i>	Quayle, 1935 C.	tters, prosecution as to the r D. 11, 453 O.G. 213.	nerits is
4)🖂	Claim(s) 1	<u>l-12</u> is/are pending in the ap	plication.			
	4a) Of the a	above claim(s) is/are	withdrawn from o	onsideration.		
		-9 and 11 is/are allowed.				
6)⊠	Claim(s) 1	<u>0</u> is/are rejected.				
7)🖂	Claim(s) 12	2 is/are objected to.				
8)[Claim(s) _	are subject to restriction	on and/or election	requirement.		
Applicati	on Papers					
9)[] 7	The specific	ation is objected to by the E	Examiner.	•		
10)🛛 🛚	he drawing	g(s) filed on <u>12 February 20</u> 0	<u>01</u> is/are: a) <u>□</u> acc	cepted or b) 🛛 obje	ected to by the Examiner.	
		may not request that any object				
11)[] T		ed drawing correction filed o			sapproved by the Examiner.	
	If approved	l, corrected drawings are requi	red in reply to this (Office action.		
12)[] T	he oath or	declaration is objected to by	the Examiner.			
Priority u	nder 35 U.	S.C. §§ 119 and 120				
13)🛛 🛚	Acknowled	gment is made of a claim fo	r foreign priority u	nder 35 U.S.C. §	119(a)-(d) or (f).	
		Some * c) None of:				
•	1.⊠ Certif	fied copies of the priority do	cuments have be	en received.		
2	2. Certif	ied copies of the priority do	cuments have be	en received in Ap	plication No.	
	3.∐ Copie a		he priority docum	ents have been r	received in this National Sta	је
ه <i>ا</i> ر د. د. ۱م	The tran	nslation of the foreign language	ane provisional a	nuci 35 U.S.C. §	119(e) (to a provisional app	olication).
15) 🗌 Ad	knowledgr	nent is made of a claim for o	domestic priority i	inder 35 U.S.C. &	en received. §§ 120 and/or 121	
ttachment(priority to		13 120 and/01 121.	
☐ Notice	of Draftsperso	Cited (PTO-892) on's Patent Drawing Review (PTO- re Statement(s) (PTO-1449) Paper	948) · No(s)	4) Interview St. 5)Notice of Intercept Other:	ummary (PTO-413) Paper No(s) formal Patent Application (PTO-152	
Patent and Trad O-326 (Rev.			Office Action Summa		Part of Pano	

Art.Unit: 2872

Page 2

DETAILED ACTION

1. This Office Action is in response to amendments filed 12 September 2002 and 1 November 2002 in paper numbers 9-11 in which claims 8-10 were amended and claim 12 was added. Claims 1-12 are pending.

Drawings

1. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the image display unit including a reflection display driven at a clock frequency illuminated sequentially with different colors or a single color and including a filter wheel must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Claim Objections

Claim 12 is objected to because of the following informalities:
In claim 12, line 3, "said reflection display" lacks antecedent basis.
Appropriate correction is required.

Claim Rejections - 35 USC § 112

3. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Art-Unit: 2872

4. Claim 10 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 10 includes the limitations of the reflection display being illuminated sequentially with different colors and with a single color. It is unclear how both multi-color and single color illumination can be accomplished together. For the purpose of examination, the examiner interprets illumination by a single color as more time is spent illuminating that single color.

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 6. Claim 10 is rejected under 35 U.S.C. 102(b) as being anticipated by Ernstoff et al., U.S. Patent No. 4,090,219.

Ernstoff et al. discloses a system (fig. 8) comprising a viewing unit (314) for viewing an object and defining a viewing beam path, an image projection module (302, 304, 306, 308, 310, 312, 320 and 322) for inputting image data into the viewing unit, the image projection module including an image display unit (310) for displaying image data for transmission into the viewing unit, the image display unit including a reflection display (310, column 2, lines 57-58) driven at a clock frequency (column 8, lines 65-66) and illuminated sequentially with different colors as a function of time (column 8, lines 51-56) and the image display unit having a brightness increased

Art'Unit: 2872

by providing a time-dependent sequential illumination of the reflection display with only a single color (it is inherent in the system in so far as, if more time is spent on a single color, it will be brighter). The preamble fails to structurally limit the body of claim. Ernstoff et al. meets all of the structural limitations required by the claim in support thereof. As such, Ernstoff et al. must support a surgical microscope in the same way as the structure of the claim.

Allowable Subject Matter

- 7. Claims 1-9 and 11 are allowed.
- 8. Claim 12 would be allowable if rewritten to overcome the objection set forth in this

 Office action and to include all of the limitations of the base claim and any intervening claims.
- 9. The following is an examiner's statement of reasons for allowance:

Claims 1-4, 8-9, and 12 are allowable over the prior art for at least the reason that the prior art fails to teach and/or suggest "a plano-convex lens and a plano-concave lens" as set forth in the claimed combination.

Miyagi discloses in fig. 1 a microscope (10) with a viewing unit (11a, 11b) for viewing an object (not shown, column 2, lines 15-17) and defining a viewing beam path (A), an image projection module (11a') for inputting image data into the viewing unit (column 3, lines 32-39), including an image display unit (30) for displaying the image data as claimed but does not teach a plano-convex lens and a plano-concave lens mounted downstream of the image display unit.

Art Unit: 2872

Shioda et al., U.S. Patent No. 6,081,371 discloses in fig. 1 a microscope (2) with a viewing unit (7) for viewing an object (not numbered) and defining a viewing beam path (a), an image projection module (L) for inputting image data into the viewing unit (column 6, lines 31-41), including an image display unit (26) for displaying the image data as claimed but does not teach a plano-convex lens and a plano-concave lens mounted downstream of the image display unit.

Claims 5-7 and 11 are allowable over the prior art for at least the reason that the prior art fails to teach and/or suggest "an image sensor mounted to receive the image data from the image projection module" as set forth in the claimed combination.

Miyagi discloses in fig. 1 an image recording beam splitter (16b) and an image sensor (40) but the image sensor does not receive the image data as claimed.

Shioda et al. discloses an image recording beam splitter (10), an image recording device (35) and an image sensor (column 8, line 3) but the image sensor does not receive the image data as claimed.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Response to Arguments

10. Applicant's arguments with respect to Cooper et al. have been considered but are moot in view of the new ground(s) of rejection.

Art Unit: 2872

11. Applicant's arguments filed 1 November 2002 have been fully considered but they are not

persuasive. Applicant argues that Ernstoff et al. "provides no hint" that the brightness of the

reflection display can be increased by providing time-dependent sequential illumination using

only a single color. The examiner disagrees. It is inherent in the system in so far as, if more time

is spent on a single color, it will be brighter.

12. It is noted by the Examiner that the claim objections made in the previous Office Action

have been withdrawn due to amendment presented by the Applicant.

Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Lee Fineman whose telephone number is (703) 305-5414. The

examiner can normally be reached on Monday - Friday 7:30 - 4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Cassandra Spyrou can be reached on (703) 308-1687. The fax phone numbers for the

organization where this application or proceeding is assigned are (703) 872-9318 for regular

communications and (703) 872-9319 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist whose telephone number is (703) 305-4900.

LAF

November 4, 2002

Cassandra Spyrou
Supervisory Patent Examiner

Page 6

Technology Center 2800